

System of Reusable Software Parts and Methods for Use

Abstract

A system of reusable software parts for designing and constructing software components, applications and entire systems by assembly. Parts for generating events, shaping, distributing and controlling flows of events and other interactions are included. Also included are parts for handling synchronization and desynchronization of events and other interactions between parts, as well as parts for handling properties, parameterizing and serializing components, applications and systems. In addition, innovative adapter parts for interfacing parts that are not designed to work together are included. The system includes a dynamic container for software parts which supports integration of dynamically changing sets of parts into statically defined structures of parts. Other reusable parts for achieving such integration are also included.